

IVÁN GÓMEZ PASCUAL

Applied AI Engineer | Industrial R&D

Teruel, Spain | EU citizen | Open to relocation

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PROFESSIONAL SUMMARY

Applied AI engineer with four years in industrial R&D, from understanding operational needs to building and deploying solutions. Combines ML, computer vision, software, data and automation in systems used by plant teams.

PROFESSIONAL EXPERIENCE

Industrial AI & R&D Lead | Apr 2025 - Present

Servaiter Team S.L. (Grupo Térvilis) | Teruel, Spain

- Work with plant teams and senior stakeholders to define operational problems, select technical approaches and shape R&D roadmaps.
- Design, develop and integrate AI applications with PLC, SCADA and HMI systems, connecting model outputs to production workflows through data pipelines and Dockerized services.
- Lead a small team and external contractors across data, software and automation, delivering industrial AI projects in fertilizer, aggregates and meat processing.

Industrial AI Engineer | Jul 2022 - Apr 2025

Entrerrios Automatización S.A. | Teruel, Spain

- Designed and deployed ML and computer vision systems for inspection, counting, traceability and prediction, working as the main individual contributor on smaller-scope industrial projects.
- Built SQL/NoSQL stores, ETL/ELT pipelines and dashboards for plant data analysis and operational use.

SELECTED INDUSTRIAL R&D PROJECTS

Continuous particle-size and colour measurement machine

Designed and built a complete machine from initial concept to factory deployment, enabling continuous particle-size and colour measurement through computer vision, software, data processing and automation.

Real-time AI for granulation control

Designed and deployed an AI system from scratch to make real-time granulation decisions during continuous operation. Owned the architecture, ML, software and integration with the granulator's industrial control system.

RAG assistants for technical support and troubleshooting

Built and deployed RAG assistants using manuals and source code to explain program logic, help diagnose faults and guide system connections, providing natural-language support and real-time operational guidance.

TECHNICAL SKILLS

Programming & ML: Python, SQL, PyTorch, TensorFlow, scikit-learn, OpenCV, pandas, NumPy.

GenAI: LLM APIs, RAG, LangChain, prompt engineering, embeddings, semantic search, code retrieval.

Data & deployment: APIs, ETL/ELT, SQL/NoSQL, Docker, Linux, Git, AWS (RDS, QuickSight).

Industrial automation: PLC/SCADA/HMI, Machine Expert, Control Expert, AVEVA System Platform.

AI-assisted development: Cursor, OpenAI Codex, Claude Code, GitHub Copilot.

EDUCATION

PhD in Data Science and AI (in progress) | Sep 2024 - Present

University of Zaragoza | Part-time; traffic prediction using heterogeneous data.

Master's in Visual Analytics and Big Data | Aug 2022 - Jun 2024

UNIR (Universidad Internacional de La Rioja) | Specialization in AI and Industry 4.0.

Bachelor's in Electronic and Automation Engineering | Sep 2018 - Jun 2022

University of Zaragoza | Best academic record in the 2018-2022 class; Best Bachelor's Thesis.

Erasmus exchange at SAMK, Finland.

PUBLICATIONS

2025 - Advanced prediction of traffic at different temporal scales using heterogeneous data sources. *IEEE Open Journal of Intelligent Transportation Systems*.

2024 - Enriched traffic datasets for the city of Madrid: Integrating data from traffic sensors, the road infrastructure, calendar data and weather data. *Data in Brief*.

LANGUAGES & CERTIFICATION

Spanish: native | English: B2 (Cambridge First Certificate).

Microsoft Azure Fundamentals (AZ-900), 2022.